

BEST AVAILABLE COPY

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-025071
 (43)Date of publication of application : 27.01.1998

(51)Int.CI. B66B 5/14
 B66B 1/44
 B66B 9/00

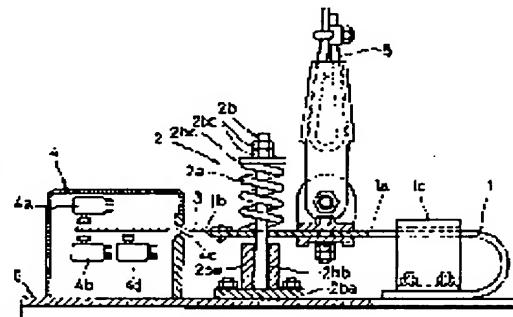
(21)Application number : 08-194111 (71)Applicant : FUJI DENKI SEISAKUSHO:KK
 (22)Date of filing : 05.07.1996 (72)Inventor : ANDO TORU

(54) EMERGENCY DETECTOR FOR HOME ELEVATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an emergency detector for a home elevator by which breakage of a suspending rope or an overload working on the suspending rope can be detected by means of a simple structure at a low cost.

SOLUTION: In a suspending plate spring 1, which is connected to a suspending rope 5 and is fixed in a car 6, the tip part serves as a free end 1b while a horizontal part 1a is positioned above a car 6, and a pressing spring 2 pressing the horizontal part 1a to the car 6 side is engaged in the horizontal part 1a of the suspending plate spring 1, while a detecting plate spring 3 with a low spring constant is prudently fixed in the free end 1b of the suspending plate spring 1. In a detection chamber 4, in which a rope breakage detection switch 4a is arranged on the opposite side of the car 6 while an overload detection switch 4b is arranged at a certain interval on the car 6 side, a detection plate spring insertion part 4c, through which the detection plate spring 3 is passed, is arranged. The detection plate spring 3 is inserted through the plate spring insertion part 4c so as to be positioned between both of the switches 4a, 4b in the detection chamber 4.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision]

of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

BEST AVAILABLE COPY

Copyright (C); 1998,2003 Japan Patent Office